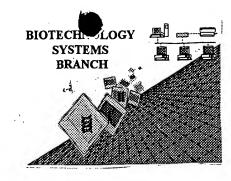
## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/942,252Source: 0/96Date Processed by STIC: 9/(8/200)

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: <a href="mailto:patin21help@uspto.gov">patin21help@uspto.gov</a> or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: <a href="mailto:patin3help@uspto.gov">patin3help@uspto.gov</a> or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

OIPE

RAW SEQUENCE LISTING DA

PATENT APPLICATION: US/09/942,252

DATE: 09/18/2001 TIME: 11:25:53

Input Set : A:\GENO 2002 Sequence Listing.txt

Output Set: N:\CRF3\09182001\I942252.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: Messier, Walter

4 Sikela, James M

6 <120> TITLE OF INVENTION: Methods to Identify Polynucleotide and Polypeptide

Sequences Which May Be Associated with Physiological

8 and Medical Conditions

10 <130> FILE REFERENCE: GENO 200.2/CIP

12 <140> CURRENT APPLICATION NUMBER: US/09/942,252

13 <141> CURRENT FILING DATE: 2001-08-28

15 <150> PRIOR APPLICATION NUMBER: 09/591,435

16 <151> PRIOR FILING DATE: 2000-06-09

18 <150> PRIOR APPLICATION NUMBER: 09/240,915

19 <151> PRIOR FILING DATE: 1999-01-29

21 <150> PRIOR APPLICATION NUMBER: 60/073,263

22 <151> PRIOR FILING DATE: 1998-01-30

24 <150> PRIOR APPLICATION NUMBER: 60/098,987

25 <151> PRIOR FILING DATE: 1998-09-02

27 <160> NUMBER OF SEQ ID NOS: 30

29 <170> SOFTWARE: PatentIn Ver. 2.0

## ERRORED SEQUENCES

1466 <210> SEQ ID NO: 16

1467 <211> LENGTH: 1207

1468 <212> TYPE: PRT

1469 <213> ORGANISM: Homo sapiens

1471 <400> SEQUENCE: 16

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1473 1 5 10 15

1475 Asn Leu Leu Gln Cys Leu Ala Gln Cys Ala Glu Val Thr Pro Tyr Leu

1476 20 25 30

1479 35 40 45

1481 Ser Cys Arg Val Ala Glu Ser Met Ala Pro Asp Pro Arg Thr Leu Gln

1478 Leu Val Met Glu Phe Cys Pro Leu Gly Asp Leu Lys Gly Tyr Leu Arg

482 50 55 60

1404 Ame Met Ale Cue Clu Vel Ale Cue Clu Vel Tou Vie Tou Vie Ame Ace

1484 Arg Met Ala Cys Glu Val Ala Cys Gly Val Leu His Leu His Arg Asn

1485 65 70 75 80

1487 Asn Phe Val His Ser Asp Leu Ala Leu Arg Asn Cys Leu Leu Thr Ala 1488 90 95

1490 Asp Leu Thr Val Lys Ile Gly Asp Tyr Gly Leu Ala His Cys Lys Tyr

1491 100 105 110

1493 Arg Glu Asp Tyr Phe Val Thr Ala Asp Gln Leu Trp Val Pro Leu Arg

1494 115 120 125

1496 Trp Ile Ala Pro Glu Leu Val Asp Glu Val His Ser Asn Leu Leu Val

497 130 135 14

1499 Val Asp Gln Thr Lys Ser Gly Asn Val Trp Ser Leu Gly Val Thr Ile

1500 145 150 155 16

RAW SEQUENCE LISTING DATE: 09/18/2001 PATENT APPLICATION: US/09/942,252 TIME: 11:25:53

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Output Set: N:\CRF3\09182001\1942252.raw

1502 1503	Trp	Glu	Leu	Phe	Glu 165	Leu	Gly	Thr	Gln	Pro 170	Tyr	Pro	Gln	His	Ser 175	Asp
	Gln	Gln	Val	Leu		Tvr	Thr	Val	Ara		Gln	Gln	Leu	Lvs		Pro
1506				180		-1-			185					190		
	Lys	Pro	Gln	Leu	Gln	Leu	Thr	Leu	Ser	Asp	Arg	Trp	Tyr	Glu	Val	Met
1509	_		195					200		-	_	-	205			
1511	Gln	Phe	Cys	Trp	Leu	Gln	Pro	Glu	Gln	Arg	Pro	Thr	Ala	Glu	Glu	Val
1512	:	210					215					220				
1514	His	Leu	Leu	Leu	Ser	Tyr	Leu	Cys	Ala	Lys	Gly	Ala	Thr	Glu	Ala	Glu
	225					230					235					240
1517	' Glu	Glu	Phe	Glu	Arg	Arg	Trp	Arg	Ser	Leu	Arg	Pro	Gly	Gly	Gly	Gly
1518					245					250					255	
1520	) Val	Gly	Pro	Gly	Pro	Gly	Ala	Ala		Pro	Met	Leu	Gly		Val	Val
1521				260					265				_	270		_
	Glu	Leu		Ala	Ala	Ser	Ser		Pro	Leu	Leu	Glu		Phe	Ala	Gly
1524			275	•		_		280	_		_		285	_,		_,
	Asp		Phe	His	Ala	Asp		Asp	Asp	Val	Leu		Val	Thr	GIu	Thr
1527		290	-1	_	_		295	_	_		<b>~1</b>	300	<b>a</b> 1	3	<b>01</b>	
	Ser	Arg	GIY	Leu	Asn		ĢIU	Tyr	гаг	Trp		Ата	GIY	Arg	GIY	
	305	7 l -	Dho	Dwo	. ו ג	310	T 011	cor	Dro	C111	315	mh r	7.1 -	7 ~~	Tou	320
1532	Glu	Ата	Pne	PIO	325	1111	ьeu	ser	PIO	330	AIG	TIIT	нта	AIG	335	GIII
	, Glu	LOU	Cvc	λla		λen	Cl w	λla	Dro		Glv	Wal	Va 1	Pro		T.e.11
1536		пеп	Cys	340	FIO	изр	GLY	нта	345	FIO	Gry	Val	Val	350	VUI	деа
	Ser	Ala	His		Pro	Ser	Leu	Glv		Glu	Tvr	Phe	Ile		Leu	Glu
1539			355					360			- 4 -		365			
	Glu	Ala		Pro	Ala	Ala	Gly	His	Asp	Pro	Asp	Cys	Ala	Gly	Cys	Ala
1542		370					375		-		-	380		_	_	
1544	Pro	Ser	Pro	Pro	Ala	Thr	Ala	Asp	Gln	Asp	Asp	Asp	Ser	Asp	Gly	Ser
1545	385					390					395					400
1547	Thr	Ala	Ala	Ser	Leu	Ala	Met	Glu	Pro	Leu	Leu	Gly	His	Gly	Pro	Pro
1548					405					410					415	
	) Val	Asp	Val		Trp	Gly	Arg	Gly	_	His	Tyr	Pro	Arg	_	Ser	Leu
1551				420					425					430		
	Ala	Arg	-	Pro	Leu	Cys	Pro		Arg	Ser	Pro	Ser		Ser	Ala	Gly
1554		_	435	_ •			~ 7	440					445	<b></b>	<b>a</b> 1	**- 3
	Pro		Ser	Leu	Ala	GLu		GIY	Ala	GIU	Asp		Asp	Trp	GIĀ	vaı
1557		450	Dho	Crra	Dwo	21-	455	Dho	C1.,	N an	Dro	460	C1.	Пhъ	Cor	Dro
	Ala	Ата	Pne	Cys	Pro	470	Pne	Pne	GIU	Asp	475	ьeu	GIY	THE	ser	480
	) 465 Leu	C1 11	Cor	Cor	C1.		Dro	Dro	Tou	Dro		Пhr	C1 17	Clu	λαν	
1563		GIY	261	261	485	Ата	FIO	FIO	пец	490	пец	1111	Gry	GIU	495	GIU
	Leu	Glu	Glu	Val		Δla	Ara	Ara	Δla		Gln	Ara	Glv	His		Ara
1566			u	500	1		9	9	505			9	1	510		5
	Ser	Asn	Val		Ala	Asn	Asn	Asn		Gly	Ser	Arq	Cys		Glu	Ser
1569			515					520		4		,	525			
	lTrp	Asp		Val	Ser	Ala	Gly		His	Ala	Glu	Gly	Cys	Pro	Ser	Pro
1572		530					535	-				540	-			
1574	Lys	Gln	Thr	Pro	Arg	Ala	Ser	Pro	Glu	Pro	Gly	Tyr	Pro	Gly	Glu	Pro

RAW SEQUENCE LISTING DATE: 09/18/2001
PATENT APPLICATION: US/09/942,252 TIME: 11:25:53

Input Set : A:\GENO 2002 Sequence Listing.txt
Output Set: N:\CRF3\09182001\I942252.raw

1676	E 1 E					550					555					E C O
1575		т	<b>C1</b>	т	C1 =		31.	C		<b>61</b>		<b>D</b>	<b>a</b> 1	<b>~</b>	<b>a</b>	560
1577	ьeu	Leu	GTA	Leu	565	Ala	Ата	Ser	Ата		GIU	Pro	GIY	Cys	_	Pro
1578	G1	т	D	774 ~		<b>a</b>	G	31-	<b>a</b> 1	570	<b>+</b>				575	
1580	GLY	Leu	Pro		Leu	Cys	Ser	Ата		GTÄ	ьeu	Ата	Pro		Pro	Cys
1581		<b>.</b>		580		_			585				_	590		
1583	Leu	Val		Pro	Ser	Trp	Thr		Thr	Ala	Ser	Ser	_	Gly	Asp	His
1584			595					600					605			
1586	Pro		Ala	Glu	Pro	Lys		Ala	Thr	Glu	Ala		Gly	Thr	Thr	Gly
1587		610					615					620				
1589		Arg	Leu	Pro	Leu		Ser	Val	Pro	Ser	Pro	Ser	Gln	Glu	Gly	Ala
1590						630					635					640
1592	Pro	Leu	Pro	Ser	Glu	Glu	Ala	Ser	Ala	Pro	Asp	Ala	Pro	Asp	Ala	Leu
1593					645					650					655	
1595	Pro	Asp	Ser	Pro	Thr	Pro	Ala	Thr	Gly	Gly	Glu	Val	Ser	Ala	Ile	Lys
1596				660					665					670		
1598	Leu	Ala	Ser	Ala	Leu	Asn	Gly	Ser	Ser	Ser	Ser	Pro	Glu	Val	Glu	Ala
1599			675					680					685			
1601	Pro	Ser	Ser	Glu	Asp	Glu	Asp	Thr	Ala	Glu	Ala	Thr	Ser	Gly	Ile	Phe
1602		690					695					700				
1604	Thr	Asp	Thr	Ser	Ser	Asp	Gly	Leu	Gln	Ala	Arg	Arg	Pro	Asp	Val	Val
1605	705					710					715					720
1607	Pro	Ala	Phe	Arg	Ser	Leu	Gln	Lys	Gln	Val	Gly	Thr	Pro	Asp	Ser	Leu
1608					725					730					735	
1610	Asp	Ser	Leu	Asp	Ile	Pro	Ser	Ser	Ala	Ser	Asp	Gly	Gly	Tyr	Glu	Val
1611				740		,			745					750		
1613	Phe	Ser	Pro	Ser	Ala	Thr	Gly	Pro	Ser	Gly	Gly	Gln	Pro	Arg	Ala	Leu
1614			755				_	760		_	_		765	-		
1616	Asp	Ser	Gly	Tyr	Asp	Thr	Glu	Asn	Tyr	Glu	Ser	Pro	Glu	Phe	Val	Leu
1617	_	770	_	_	_		775		_			780				
1619	Lys	Glu	Ala	Gln	Glu	Gly	Cys	Glu	Pro	Gln	Ala	Phe	Ala	Glu	Leu	Ala
1620						790	-				795					800
1622	Ser	Glu	Gly	Glu	Gly	Pro	Gly	Pro	Glu	Thr	Arq	Leu	Ser	Thr	Ser	Leu
1623			-		805		-			810	-				815	
1625	Ser	Gly	Leu	Asn	Glu	Lys	Asn	Pro	Tyr	Arq	Asp	Ser	Ala	Tyr	Phe	Ser
1626		-		820		•			825		-			830		
1628	Asp	Leu	Glu	Ala	Glu	Ala	Glu	Ala	Thr	Ser	Gly	Pro	Glu	Lys	Lys	Cys
1629	_		835					840			_		845	-	-	-
1631	Gly	Gly	Asp	Arg	Ala	Pro	Gly	Pro	Glu	Leu	Gly	Leu	Pro	Ser	Thr	Gly
1632	_	850	-				855				_	860				_
1634	Gln	Pro	Ser	Glu	Gln	Val	Cvs	Leu	Arq	Pro	Glv	Val	Ser	Glv	Glu	Ala
1635						870	-		_		875			_		880
1637	Gln	Gly	Ser	Gly	Pro	Gly	Glu	Val	Leu	Pro	Pro	Leu	Leu	Gln	Leu	Glu
1638		-		-	885	-				890					895	
1640	Gly	Ser	Ser	Pro	Glu	Pro	Ser	Thr	Cys	Pro	Ser	Gly	Leu	Val	Pro	Glu
1641	-			900					905			-		910		
1643	Pro	Pro	Glu	Pro	Gln	Gly	Pro	Ala		Val	Arq	Pro	Gly		Ser	Pro
1644			915			_		920	-		_		925			
1646	Ser	Cys	Ser	Gln	Phe	Phe	Leu	Leu	Thr	Pro	Val	Pro	Leu	Arg	Ser	Glu
1647		930					935					940		_		

RAW SEQUENCE LISTING DATE: 09/18/2001 PATENT APPLICATION: US/09/942,252 TIME: 11:25:53

Input Set: A:\GENO 2002 Sequence Listing.txt
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1649 Gly Asn Ser Ser Glu Phe Gln Gly Pro Pro Gly Leu Leu Ser Gly Pro 950 955 1652 Ala Pro Gln Lys Arg Met Gly Gly Pro Gly Thr Pro Arg Ala Pro Leu 965 970 1655 Arg Leu Ala Leu Pro Gly Leu Pro Ala Ala Leu Glu Gly Arg Pro Glu 985 1658 Glu Glu Glu Glu Asp Ser Glu Asp Ser Asp Glu Ser Asp Glu Leu When
puntering
first arrivo
aid on a line,
begin number
directly under
first letter of
americ aid 1000 1005 1661 Arg Cys Tyr Ser Val Gln Glu Pro Ser Glu Asp Ser Glu Glu Glu Ala 1015 1662 1010 1020 1664 Pro Ala Val Pro Val Val Val Ala Glu Ser Gln Ser Ala Arg Asn Leu E--> 1665(025)/025 1030 1035 1667 Arg Ser Leu Leu Lys Met Pro Ser Leu Leu Ser Glu Thr Phe Cys Glu 1045 1050 1670 Asp Leu Glu Arg Lys Lys Lys Ala Val Ser Phe Phe Asp Asp Val Thr 1065 1671 1060 1070 1673 Val Tyr Leu Phe Asp Gln Glu Ser Pro Thr Arg Glu Leu Gly Glu Pro 1080 1676 Phe Pro Gly Ala Lys Glu Ser Pro Pro Thr Phe Leu Arg Gly Ser Pro 1090 1095 1100 1679 Gly Ser Pro Ser Ala Pro Asn Arg Pro Gln Gln Ala Asp Gly Ser Pro E--> 1680(105)//05 1110 1115 1682 Asn Gly Ser Thr Ala Glu Glu Gly Gly Phe Ala Trp Asp Asp Asp 1125 1130 1685 Phe Pro Leu Met Thr Ala Lys Ala Ala Phe Ala Met Ala Leu Asp Pro 1145 1150 1140 1688 Ala Ala Pro Ala Pro Ala Ala Pro Thr Pro Thr Pro Ala Pro Phe Ser 1689 1155 1160 1691 Arg Phe Thr Val Ser Pro Ala Pro Thr Ser Arg Phe Ser Ile Thr His 1180 1692 1170 1175 1694 Val Ser Asp Ser Asp Ala Glu Ser Lys Arg Gly Pro Glu Ala Gly Ala E--> 1695 (185) //85 1190 1195 1697 Gly Glu Ser Lys Glu Ala 1698 . 1205

VERIFICATION SUMMARY

DATE: 09/18/2001

PATENT APPLICATION: US/09/942,252

TIME: 11:25:54

Input Set : A:\GENO 2002 Sequence Listing.txt Output Set: N:\CRF3\09182001\I942252.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:1665 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16

M:332 Repeated in SeqNo=16